

Resource Summary Report

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Gene Cloud: Exploring Connections in the Mouse Genome

RRID:SCR_003503

Type: Tool

Proper Citation

Gene Cloud: Exploring Connections in the Mouse Genome (RRID:SCR_003503)

Resource Information

URL: <http://genecloud.org/>

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Description: Gene Cloud is a novel tool presenting gene-gene associations based on the scientific literature. It was developed by the Knockout Mouse Repository (www.komp.org) to help our customers find products related to other products they chose. We have built a detailed graph model of gene-gene associations based on how many times two genes are cited in the same article. If two genes are cited in many papers together, they are considered strongly connected. Each instance of Gene Cloud is centered around a specific gene. A list of the top most related genes is plotted as a branching structure from the center. A secondary branch can occur if a gene in the graph is more related a non-central gene than it is to the center gene. The font size of a branched gene indicates the relative strength of connection--always to the center gene. The distribution of genes in space is randomized each time Gene Cloud is run so a different picture will result for the same central gene. Color is used to indicate the availability of Knockout Mouse products at the KOMP Repository. If a gene is colored green in the graph there are products (mutant ES cells, sperm, embryos, or mice) ready to be ordered. Blue colored genes do not yet have products available, but you can follow the links back to the KOMP Repository and register interest to be alerted when products do become available. Gene Cloud is driven by a database of gene-gene associations that currently contains 82,000 genes and other biotypes, 113,000 annotated publications, and 467 million connections. The latest gene symbols, names and gene-publication annotation information is updated daily from the Mouse Genome Informatics database. The graphing is accomplished through the use of a modified version of jsViz.

Abbreviations: Gene Cloud

Resource Type: service resource

Keywords: gene, association, literature, knockout, mouse

Funding: www.komp.org ;
www.mousebiology.org

Resource Name: Gene Cloud: Exploring Connections in the Mouse Genome

Resource ID: SCR_003503

Alternate IDs: nif-0000-37178

Record Creation Time: 20220129T080219+0000

Record Last Update: 20260905T132504+0000

Ratings and Alerts

No rating or validation information has been found for Gene Cloud: Exploring Connections in the Mouse Genome.

No alerts have been found for Gene Cloud: Exploring Connections in the Mouse Genome.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Bhuvanalakshmi G, et al. (2018) Stemness, Pluripotentiality, and Wnt Antagonism: sFRP4, a Wnt antagonist Mediates Pluripotency and Stemness in Glioblastoma. Cancers, 11(1).